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1 Hardware algorithms for nonnumeric computation   ■

Amar Mukhopadhyay

April 1978 **Proceedings of the 5th annual symposium on Computer architecture ISCA '78**

Publisher: ACM Press

Full text available: 📄 pdf(992.52 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper is concerned with the design of hardware algorithms for nonnumeric computation. The subset of nonnumeric operations considered is derived from string processing languages such as SNOBOL or high-level data base languages used in data base management architectures. It is shown that cellular hardware can be designed to perform these operations on-line while the data is accessed from a rotating secondary storage medium. Being uniformly structured, the hardware could be implemented us ...

2 The VolumePro real-time ray-casting system   ▬

Hanspeter Pfister, Jan Hardenbergh, Jim Knittel, Hugh Lauer, Larry Seiler

July 1999 **Proceedings of the 26th annual conference on Computer graphics and interactive techniques SIGGRAPH '99**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: 📄 pdf(2.11 MB)   Additional Information: full citation, references, citings, index terms

Keywords: graphics hardware, hardware systems, rendering hardware, rendering systems, volume rendering

3 An interactive graphical display monitor in a batch-processing environment with   ■
remote entry

Alan H. Bond, Jerry Rightnour, L. Steven Coles

November 1969 **Communications of the ACM**, Volume 12 Issue 11

Publisher: ACM Press

Full text available: 📄 pdf(1.38 MB)   Additional Information: full citation, abstract, references, citings, index terms

A graphic monitor program is described. It was developed at Carnegie-Mellon University for the CDC G21 computer, which is a general purpose, batch-processing system with remote entry. The existing G21 system and the graphics hardware are described. The graphic monitor is a resident auxiliary monitor which provides comprehensive managerial capability over the graphical system in response to commands from the human user. It also will respond to commands from a user program through a similar i ...

Keywords: design of graphical system, graphic interface, graphic monitor, graphics, graphics in batch environment, man/machine interaction

EAST Search History

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S75	307	(video or dynamic) same (data or image or frame) same (composit$3 or layer or graphic) same (cursor adj4 image)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 11:24
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S12	48	blend$4 and (image near layer) and pipeline and alpha	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 11:26